

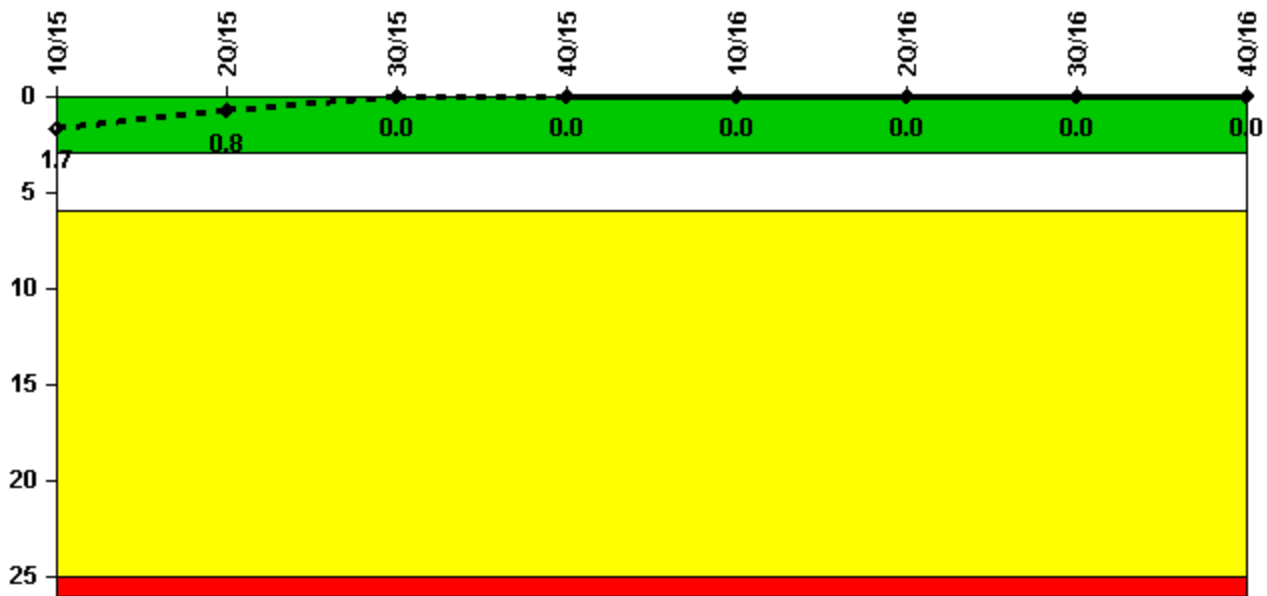
# Vogtle 1

## 4Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



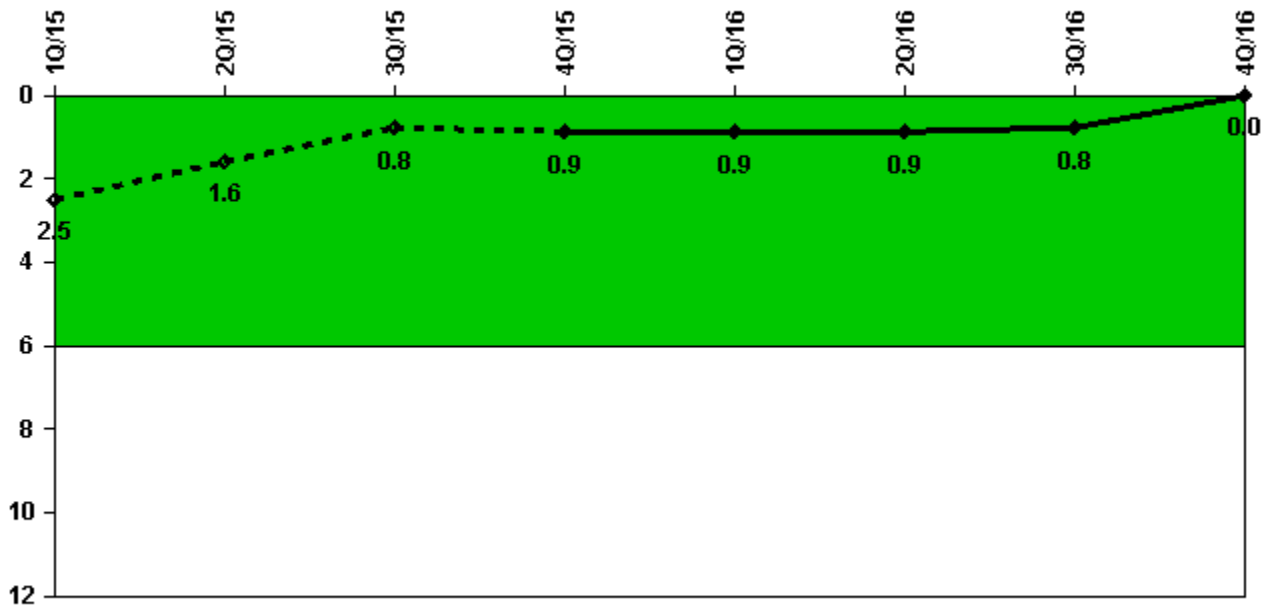
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2159.0	2184.0	1948.9	1687.2	2183.0	2184.0	2208.0	2209.0
Indicator value	1.7	0.8	0	0	0	0	0	0

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



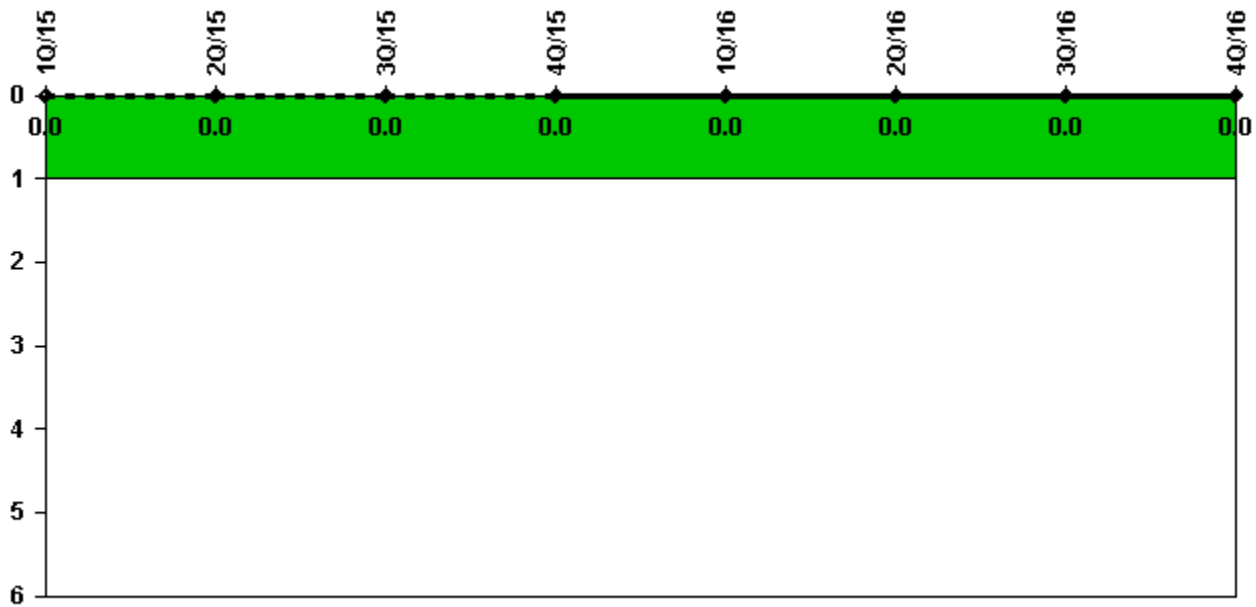
Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Unplanned power changes	0	0	0	1.0	0	0	0	0
Critical hours	2159.0	2184.0	1948.9	1687.2	2183.0	2184.0	2208.0	2209.0
<b>Indicator value</b>	<b>2.5</b>	<b>1.6</b>	<b>0.8</b>	<b>0.9</b>	<b>0.9</b>	<b>0.9</b>	<b>0.8</b>	<b>0</b>

Licensee Comments: none

### Unplanned Scrams with Complications



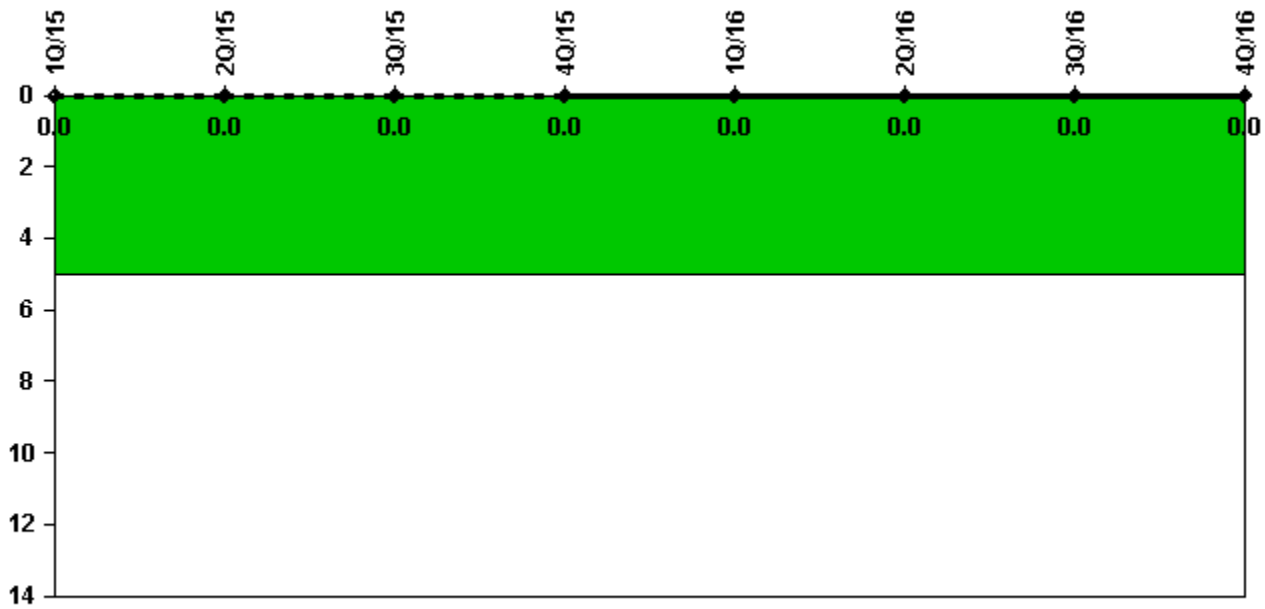
Thresholds: White > 1.0

#### Notes

Unplanned Scrams with Complications	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Scrams with complications	0	0	0	0	0	0	0	0
<b>Indicator value</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>

Licensee Comments: none

### Safety System Functional Failures (PWR)



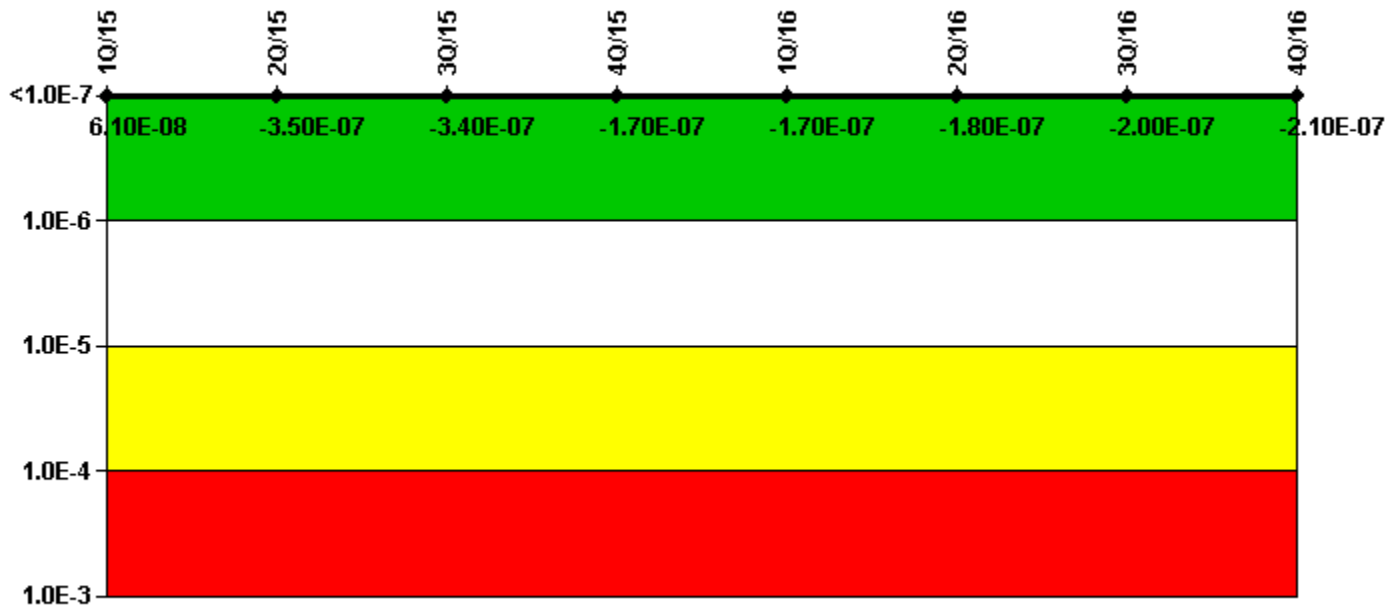
Thresholds: White > 5.0

#### Notes

Safety System Functional Failures (PWR)	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Safety System Functional Failures	0	0	0	0	0	0	0	0
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Licensee Comments: none

### Mitigating Systems Performance Index, Emergency AC Power System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

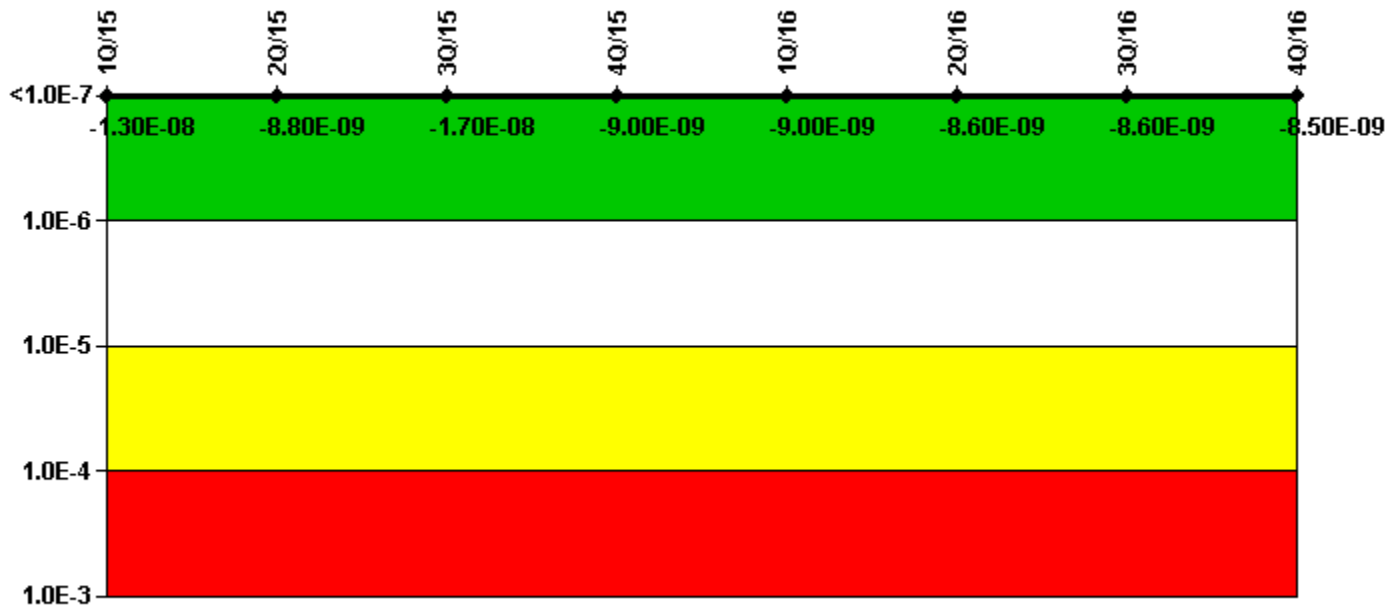
#### Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI ( $\Delta$ CDF)	3.13E-08	2.65E-08	2.51E-08	4.21E-08	4.23E-08	3.23E-08	2.87E-08	3.78E-09
URI ( $\Delta$ CDF)	2.94E-08	-3.72E-07	-3.67E-07	-2.13E-07	-2.13E-07	-2.14E-07	-2.29E-07	-2.11E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	6.10E-08	-3.50E-07	-3.40E-07	-1.70E-07	-1.70E-07	-1.80E-07	-2.00E-07	-2.10E-07

Licensee Comments:

4Q/15: Changed PRA Parameter(s).

### Mitigating Systems Performance Index, High Pressure Injection System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

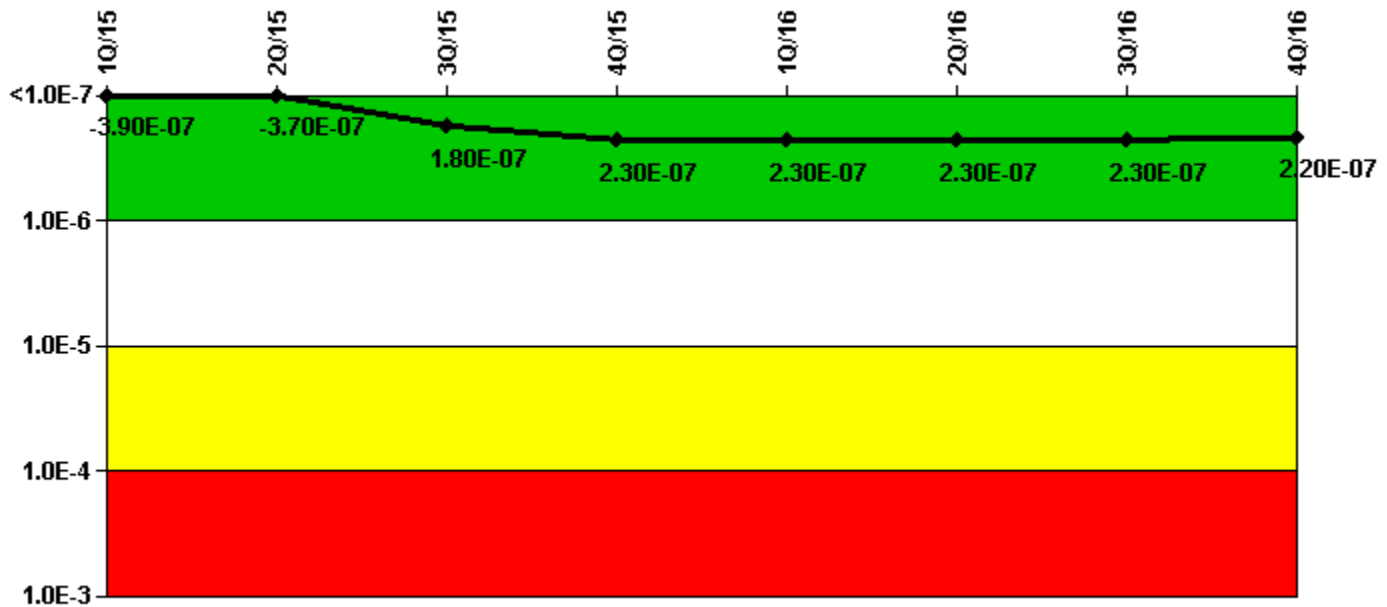
#### Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI ( $\Delta$ CDF)	-7.84E-10	3.91E-09	-4.35E-09	-2.10E-09	-2.10E-09	-2.10E-09	-2.17E-09	-2.45E-09
URI ( $\Delta$ CDF)	-1.26E-08	-1.27E-08	-1.31E-08	-6.91E-09	-6.86E-09	-6.53E-09	-6.39E-09	-6.00E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.30E-08	-8.80E-09	-1.70E-08	-9.00E-09	-9.00E-09	-8.60E-09	-8.60E-09	-8.50E-09

Licensee Comments:

4Q/15: Changed PRA Parameter(s).

### Mitigating Systems Performance Index, Heat Removal System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

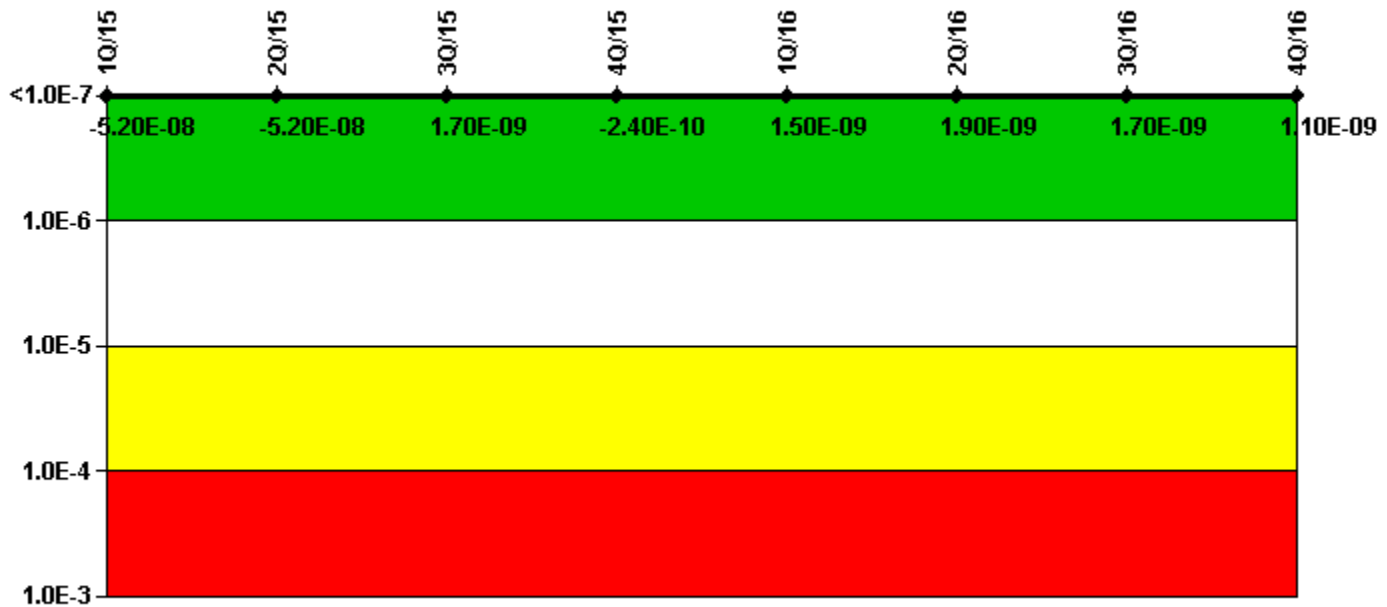
#### Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI ( $\Delta$ CDF)	-5.27E-08	-4.38E-08	-7.53E-08	-3.27E-08	-3.26E-08	-3.22E-08	-3.23E-08	-3.73E-08
URI ( $\Delta$ CDF)	-3.34E-07	-3.30E-07	2.55E-07	2.59E-07	2.59E-07	2.59E-07	2.59E-07	2.59E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.90E-07	-3.70E-07	1.80E-07	2.30E-07	2.30E-07	2.30E-07	2.30E-07	2.20E-07

Licensee Comments:

4Q/15: Changed PRA Parameter(s).

### Mitigating Systems Performance Index, Residual Heat Removal System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

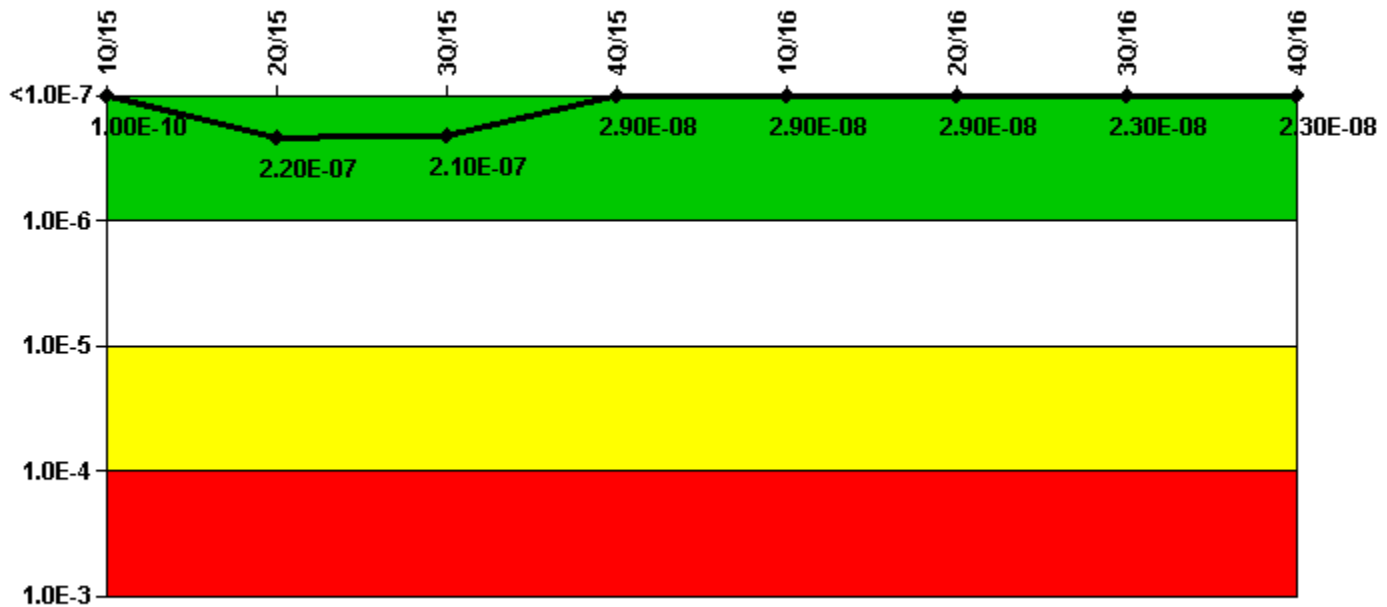
Mitigating Systems Performance Index, Residual Heat Removal System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI ( $\Delta$ CDF)	-7.50E-09	-7.48E-09	4.43E-08	2.39E-08	2.57E-08	2.61E-08	2.58E-08	2.52E-08
URI ( $\Delta$ CDF)	-4.42E-08	-4.42E-08	-4.26E-08	-2.41E-08	-2.41E-08	-2.41E-08	-2.41E-08	-2.41E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-5.20E-08	-5.20E-08	1.70E-09	-2.40E-10	1.50E-09	1.90E-09	1.70E-09	1.10E-09

Licensee Comments:

4Q/15: Changed PRA Parameter(s).



### Mitigating Systems Performance Index, Cooling Water Systems



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

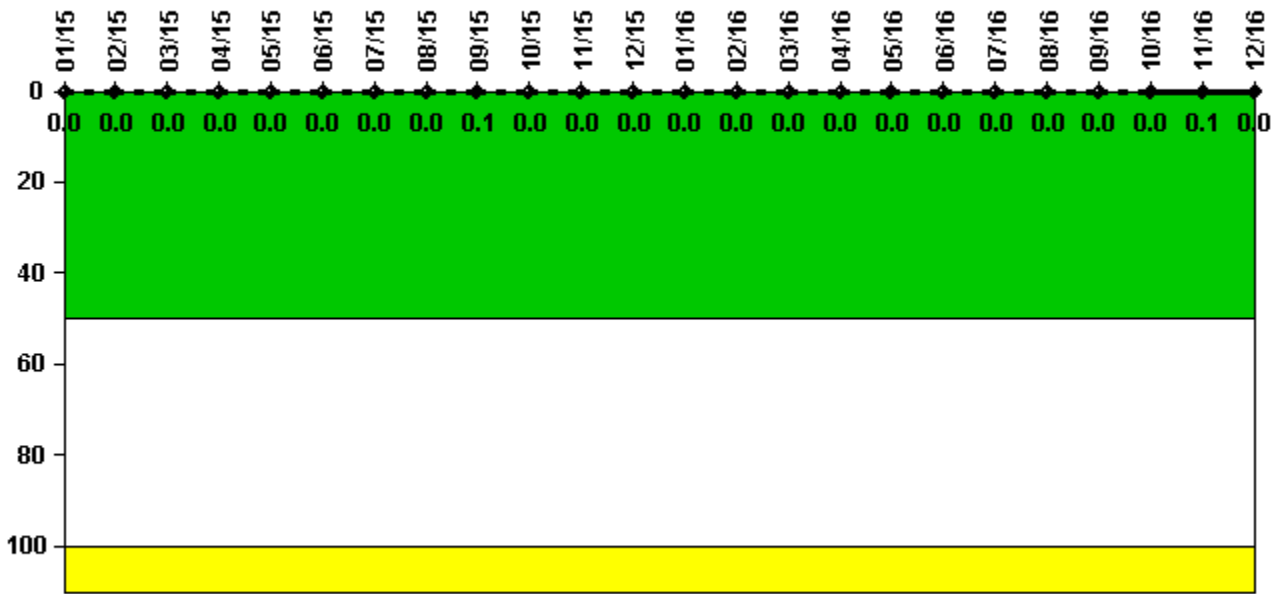
#### Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI (ΔCDF)	1.87E-08	2.34E-07	2.33E-07	3.66E-08	3.66E-08	3.66E-08	3.00E-08	3.00E-08
URI (ΔCDF)	-1.86E-08	-1.87E-08	-1.82E-08	-7.33E-09	-7.24E-09	-7.14E-09	-7.22E-09	-7.43E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.00E-10	2.20E-07	2.10E-07	2.90E-08	2.90E-08	2.90E-08	2.30E-08	2.30E-08

Licensee Comments:

4Q/15: Changed PRA Parameter(s).

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

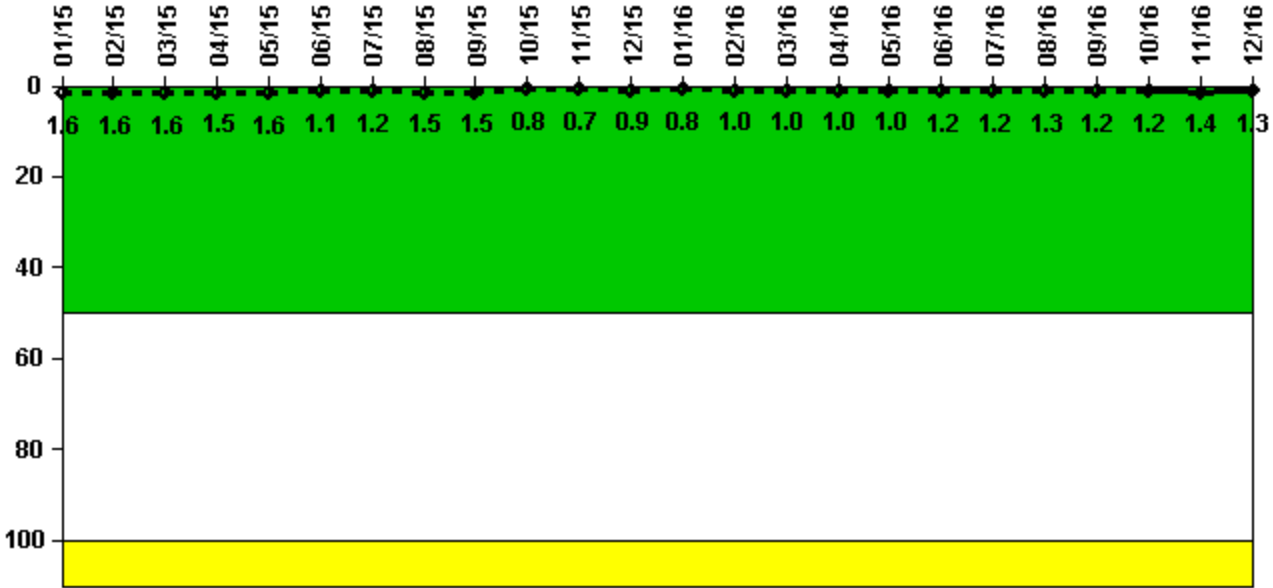
Reactor Coolant System Activity	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15
Maximum activity	0.000148	0.000151	0.000148	0.000172	0.000151	0.000169	0.000169	0.000176	0.000623	0.000040	0.000096	0.000090
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0.1	0	0	0

Reactor Coolant System Activity	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16
Maximum activity	0.000079	0.000094	0.000097	0.000078	0.000068	0.000093	0.000081	0.000092	0.000032	0.000100	0.000549	0.000116
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0.1	0

Licensee Comments: none

### Reactor Coolant System Leakage



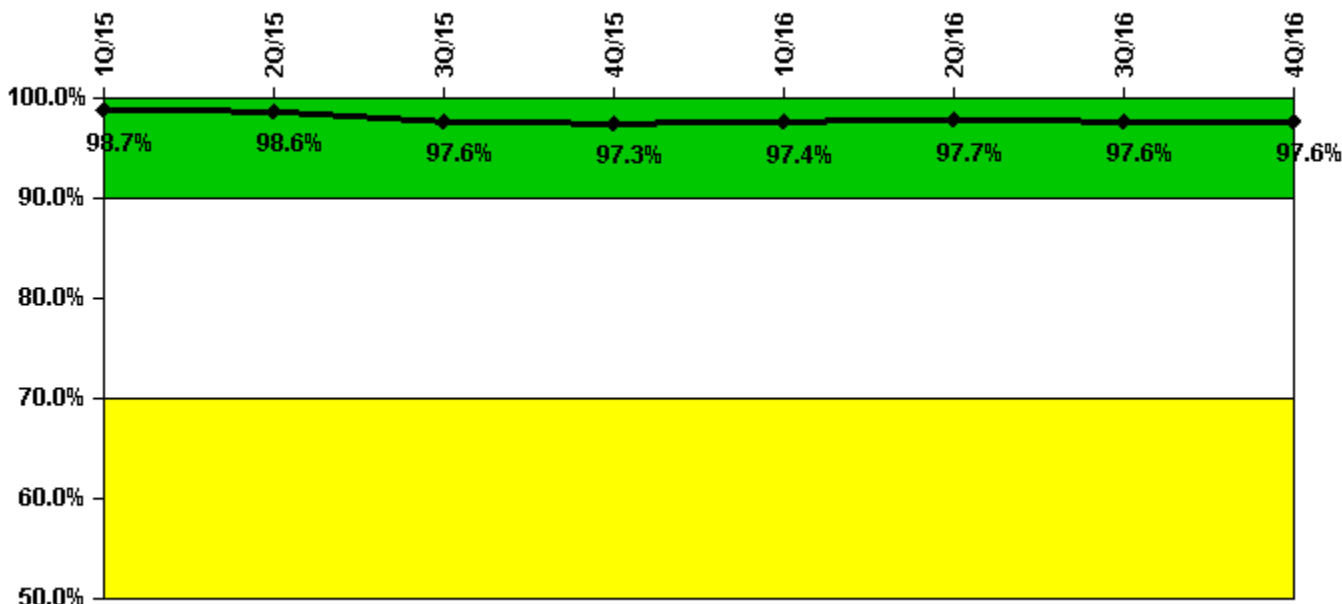
Thresholds: White > 50.0 Yellow > 100.0

**Notes**

Reactor Coolant System Leakage	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15
Maximum leakage	0.164	0.164	0.159	0.147	0.156	0.113	0.122	0.148	0.152	0.076	0.071	0.085
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
<b>Indicator value</b>	<b>1.6</b>	<b>1.6</b>	<b>1.6</b>	<b>1.5</b>	<b>1.6</b>	<b>1.1</b>	<b>1.2</b>	<b>1.5</b>	<b>1.5</b>	<b>0.8</b>	<b>0.7</b>	<b>0.9</b>
Reactor Coolant System Leakage	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16
Maximum leakage	0.083	0.096	0.095	0.098	0.104	0.117	0.121	0.131	0.115	0.115	0.141	0.125
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
<b>Indicator value</b>	<b>0.8</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.2</b>	<b>1.2</b>	<b>1.3</b>	<b>1.2</b>	<b>1.2</b>	<b>1.4</b>	<b>1.3</b>

Licensee Comments: none

### Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Successful opportunities	56.0	38.0	34.0	20.0	46.0	93.0	57.0	27.0
Total opportunities	58.0	38.0	38.0	20.0	46.0	94.0	58.0	28.0
Indicator value	98.7%	98.6%	97.6%	97.3%	97.4%	97.7%	97.6%	97.6%

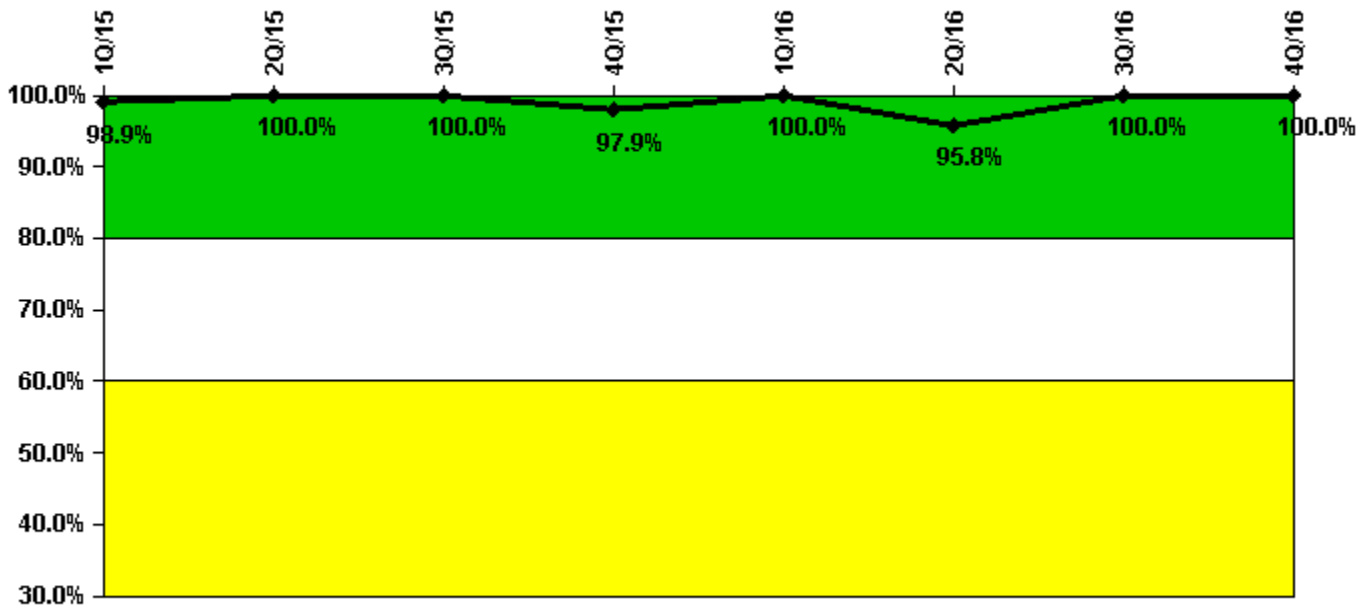
#### Licensee Comments:

3Q/15: Drill and Exercise Performance data has been revised for 2nd and 3rd Quarters. Emergency Planning reviewed participation records and determined two additional opportunities resulting in additional successes. This does not affect the indicator color.

2Q/15: Drill and Exercise Performance data has been revised. Emergency Planning reviewed participation records and determined two additional opportunities resulting in additional successes. This does not affect the indicator color.

2Q/15: Drill and Exercise Performance data has been revised for 2nd and 3rd Quarters. Emergency Planning reviewed participation records and determined two additional opportunities resulting in additional successes. This does not affect the indicator color.

### ERO Drill Participation



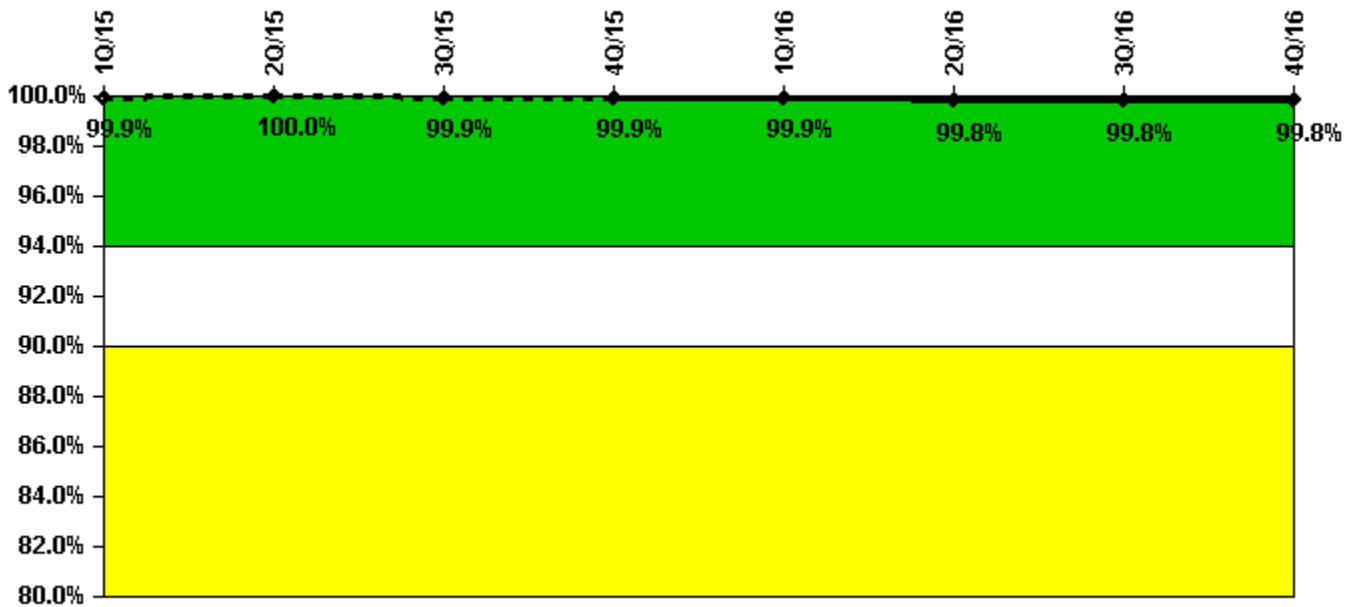
Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

ERO Drill Participation	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Participating Key personnel	91.0	97.0	96.0	93.0	89.0	92.0	96.0	105.0
Total Key personnel	92.0	97.0	96.0	95.0	89.0	96.0	96.0	105.0
Indicator value	98.9%	100.0%	100.0%	97.9%	100.0%	95.8%	100.0%	100.0%

Licensee Comments: none

### Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Successful siren-tests	611	611	610	609	611	608	610	609
Total sirens-tests	611	611	611	611	611	611	611	611
Indicator value	99.9%	100.0%	99.9%	99.9%	99.9%	99.8%	99.8%	99.8%

Licensee Comments:

4Q/15: Two siren-tests determined to be unsuccessful upon review by Emergency Planning. This does not affect the indicator color.

### Occupational Exposure Control Effectiveness



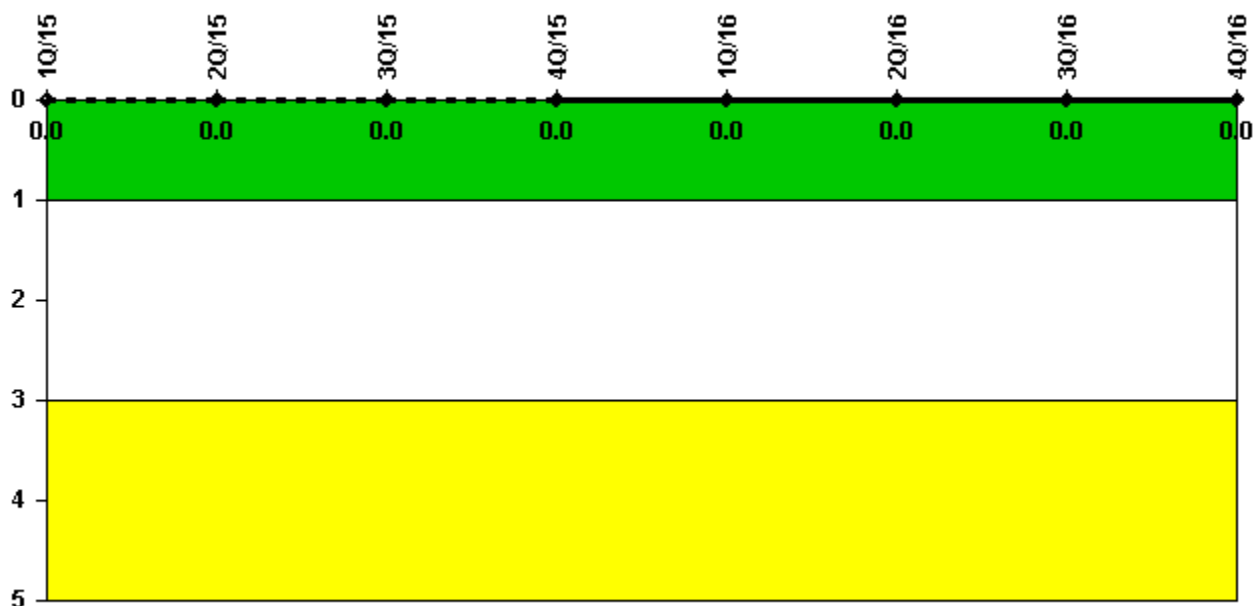
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Occupational Exposure Control Effectiveness	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Licensee Comments: none

### RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.



▲ [Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

*Last Modified: January 24, 2017*